

عنوان مقاله:

Crystal structure of [Cu(terpy)(phen-dione)](PF₆)₂

محل انتشار:

پانزدهمین همایش انجمن بلورشناسی و کانی شناسی ایران (سال: 1386)

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خلاصه مقاله:

New five-coordinated CuII complex, [Cu(terpy)(phen-dione)](PF₆)₂, (terpy= 2,2',6',2'-terpyridine and phen-dione=1,10-phenanthroline-5,6-dione) has been prepared. The complex of [Cu(terpy)(phen-dione)](PF₆)₂ crystallized with one molecule of acetonitrile with empirical formula C₂₉ H₂₀ Cu F₁₂ N₆ O₂ P₂, in a monoclinic crystal system and space group of P2₁/c with a= 8.440(2)Å, b= 26.067(5)Å, c= 15.015(3)Å, β= 92.855(18)°, V=3299.1(12)Å³ and Z=4. ORTEP drawing of [Cu(terpy)(phen-dione)](PF₆)₂.CH₃CN shows that the coordination geometry around CuII is a distorted square-pyramidal. Due to steric hindrance of PF₆ - in unit cell, the terpy ligands in each complex cations can not interact via the two π- electronic systems.

کلمات کلیدی:

CuII complex; 1,10-Phenanthroline-5,6-dione; Crystal structure; Ligand – to- metal charge –transfer

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